



10/686,931

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) Zobel et al. Examiner: Unassigned
Serial No.: Unassigned Group Art Unit: Unassigned
Confirmation No: Unassigned Docket: 163-44
Filed: October 16, 2003 Dated: October 24, 2003
For: MULTIPLE TECHNOLOGY
FLOW SENSOR

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

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on October 24, 2003

Signed: Melinda A. King

INFORMATION DISCLOSURE STATEMENT

Sir:

In order to fulfill the requirements of candor and good faith set forth in 37 C.F.R.

§1.56, Applicants submit herewith the following Information Disclosure Statement in
accordance with the provisions of 37 C.F.R. §1.97 and §1.98.

UNITED STATES PATENT PUBLICATION

| <u>APPLICANT</u> | <u>PUBLICATION NO.</u> | <u>PUBLICATION DATE</u> |
|-------------------------|-------------------------------|--------------------------------|
| Wallace | 2003/0159697 A1 | August 28, 2003 |

UNITED STATES PATENTS

| <u>PATENTEE</u> | <u>PATENT NO.</u> | <u>ISSUE DATE</u> |
|------------------------|--------------------------|--------------------------|
| Chelner et al. | 3,424,000 | January 28, 1969 |
| Pavlin et al. | 3,927,565 | December 23, 1975 |

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| <u>PATENTEE</u> | <u>PATENT NO.</u> | <u>ISSUE DATE</u> |
|------------------------|--------------------------|--------------------------|
| Furuse | 4,729,244 | March 8, 1988 |
| Uchiyama et al. | 4,875,932 | October 24, 1989 |
| Shimada et al. | 4,986,127 | January 22, 1991 |
| Stoll et al. | 5,000,226 | March 19, 1991 |
| Tamura et al. | 5,144,843 | September 8, 1992 |
| Mosser et al. | 5,187,984 | February 23, 1993 |
| Ugai et al. | 5,259,248 | November 9, 1993 |
| Stoll et al. | 5,348,047 | September 20, 1994 |
| Kolbly | 5,383,470 | January 24, 1995 |
| Hohner | 5,458,048 | October 17, 1995 |
| Kalinoski | 5,463,904 | November 7, 1995 |
| Shimada et al. | 5,469,749 | November 28, 1995 |
| Broden et al. | 5,495,769 | March 5, 1996 |
| Kuhn et al. | 5,546,794 | August 20, 1996 |
| Basch et al. | 5,717,147 | February 10, 1998 |
| Nishino et al. | 5,791,369 | August 11, 1998 |
| Lechner | 5,820,262 | October 13, 1998 |
| Loan et al. | 5,868,159 | February 9, 1999 |
| Louwagie et al. | 5,899,962 | May 4, 1999 |
| Wan | 5,965,813 | October 12, 1999 |
| Feller | 6,023,969 | February 15, 2000 |
| Strutt et al. | 6,295,874 B1 | October 2, 2001 |
| Brereton et al. | 6,408,698 B1 | June 25, 2002 |
| Fehl et al. | 6,443,328 B1 | September 3, 2002 |

| <u>PATENTEE</u> | <u>PATENT NO.</u> | <u>ISSUE DATE</u> |
|-----------------|-------------------|-------------------|
| Fathollahzadeh | 6,470,741 B1 | October 29, 2002 |
| Kurosawa | 6,561,216 B2 | May 13, 2003 |
| Tajima et al. | 6,615,867 B2 | September 9, 2003 |

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| <u>COUNTRY</u> | <u>PUBLICATION NO.</u> | <u>PUBLICATION DATE</u> |
|----------------|------------------------|-------------------------|
| EPO | 0 087 621 | August 2, 1983 |
| EPO | EP 0 381 775 A1 | August 16, 1990 |
| Japan | JP 3-18735 | January 28, 1991 |
| EPO | EP 0 561 365 A2 | September 22, 1993 |
| Germany | DE 195 02 499 A1 | August 1, 1996 |

NON-PATENT PUBLICATIONS

1. Jørgensen, Finn E., "How to Measure Turbulence with Hot-Wire Anemometers", Dantec Dynamics, Publication No: 9040U6151, February 1, 2002.

The above-referenced documents are listed on Form PTO-1449. We have enclosed the cited documents to facilitate reference to them.


CONCISE EXPLANATION OF NON-ENGLISH REFERENCES

German Patent No. DE 19502499 A1 discloses a bus system including communication slave input and output modules for actuating a sensor interface.

Japanese reference JP 3-18735 discloses a bi-level detector with sensors mounted within a chamber.

If the Examiner has any questions or comments relating to the present application, he or she is respectfully invited to contact Applicants' attorney at the telephone number set forth below.

Respectfully submitted,



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| FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (Rev. 2-32) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) | ATTY. DOCKET NO. 163-44 | SERIAL NO. Unassigned |
| | APPLICANT Zobel et al. | CONFIRMATION NO. Unassigned |
| | FILING DATE October 16, 2003 | GROUP Unassigned |

U.S. PATENT PUBLICATIONS

| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROPRIATE |
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| | 2003/0159697 A1 | 08/28/03 | Wallace | | | |

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| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROPRIATE |
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| | 3,424,000 | 1/28/69 | Chelner et al. | | | |
| | 3,927,565 | 12/23/75 | Pavlin et al. | | | |
| | 4,729,244 | 3/8/88 | Furuse | | | |
| | 4,875,932 | 10/24/89 | Uchiyama et al. | | | |

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| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB CLASS | TRANSLATION | |
|---------------------|--------------------|---------|---------|-------|--------------|-------------|----|
| | | | | | | YES | NO |
| | 0 087 621 | 8/2/83 | EPO | | | | |
| | EP 0 381 775 A1 | 8/16/90 | EPO | | | | |
| | JP 3-18735 | 1/28/91 | Japana | | | | |

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

| | | | |
|--|--|--|--|
| | | | Jorgensen, Finn E., "How to Measure Turbulence with Hot-Wire Anemometers", Dantec Dynamics, Publication No. 9040U6151, February 1, 2002. |
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| | | 4,986,127 | 1/22/91 | Shimada et al. | | | |
| | | 5,000,226 | 3/19/91 | Stoll et al. | | | |
| | | 5,144,843 | 9/8/92 | Tamura et al. | | | |
| | | 5,187,984 | 2/23/93 | Mosser et al. | | | |
| | | 5,259,248 | 11/9/93 | Ugai et al. | | | |
| | | 5,348,047 | 9/20/94 | Stoll et al. | | | |

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| | | | | | | | YES | NO |
| | | EP 0 561 365 A2 | 9/22/93 | EPO | | | | |
| | | DE 195 02 499 A1 | 8/1/96 | Germany | | | | |

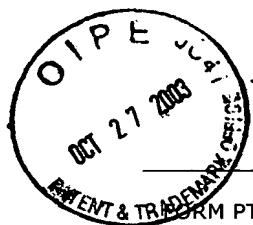
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| | | 5,458,048 | 10/17/95 | Hohner | | | |
| | | 5,463,904 | 11/7/95 | Kalinoski | | | |
| | | 5,469,749 | 11/28/95 | Shimada et al. | | | |
| | | 5,495,769 | 3/5/96 | Broden et al. | | | |
| | | 5,546,794 | 8/20/96 | Kuhn et al. | | | |
| | | 5,717,147 | 2/10/98 | Basch et al. | | | |

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163-44SERIAL NO.
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STATEMENT BY APPLICANTAPPLICANT
Zobel et al.CONFIRMATION NO.
Unassigned

(Use several sheets if necessary)

FILING DATE
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U.S. PATENT PUBLICATIONS

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| | | 5,791,369 | 8/11/98 | Nishino et al. | | | |
| | | 5,820,262 | 10/13/98 | Lechner | | | |
| | | 5,868,159 | 2/9/99 | Loan et al. | | | |
| | | 5,899,962 | 5/4/99 | Louwagie et al. | | | |
| | | 5,965,813 | 10/12/99 | Wan | | | |
| | | 6,023,969 | 2/15/00 | Feller | | | |
| | | 6,295,874 B1 | 10/2/01 | Strutt et al. | | | |

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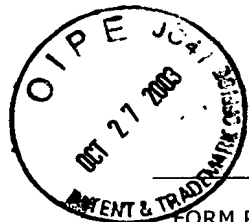
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| | | 6,408,698 B1 | 6/25/02 | Brereton et al. | | | |
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| | | 6,470,741 B1 | 10/29/02 | Fathollahzadeh | | | |
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